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(54) Title: METHOD OF IDENTIFYING GENES WHICH PROMOTE HYBRID VIGOUR AND HYBRID DEBILITY AND USES THEREOF

(57) **Abstract:** The invention relates to a method of identifying candidate genes that are potentially useful in the diagnosis and treatment of disease and/or induction of hybrid vigour. In particular, the present invention relates to a method for identifying candidate genes capable of producing hybrid vigour or hybrid debility in an animal or plant, comprising the steps of: (i) comparing the nucleotide sequence of alleles of candidate genes; (ii) identifying nucleotide sequence differences in the alleles from said animal or plant; and (iii) identifying that the amino acid sequence variation between alleles of the candidate gene are located within two or more different exons within the candidate gene.